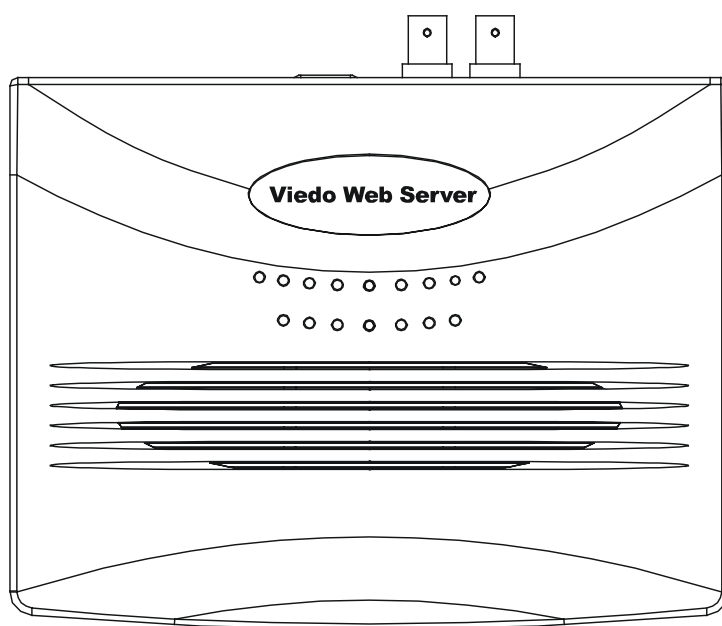# CP CAM EVOLUTION For Your Demand

http://www.cpcamcctv.com
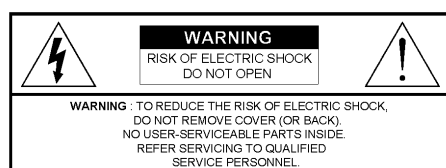
Video Web Server

Viedo Web Server

User's Manual

Please read instructions thoroughly before operation and retain it
for future reference.

CPN101_V1.1

WARNING

The apparatus shall not be exposed to dripping. No objects filled with liquids, such as vases, shall be placed on the apparatus.

```
WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.
```

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance-(servicing) instructions in the literature accompanying the appliance.

TABLE OF CONTENTS

What do you get ?

FEATURES

1. Compatible with most of CCTV Products.

2. Empower all video output device watching and controlling on the Internet or LAN.

3. Auto Network Reconnection (ANR).

4. Support alarm triggers recording & watch dog function.

5. Support Dynamic IP address via a Router.

6. Support 4 alarm inputs.

7. Duplex function, record and playback simultaneously at client site.

8. Auto e-mail warning system & images uploading function (to FTP site) that will remind you if external alarm happened.

9. Intelligent non-stoppable recording function after ANR.

10. Support Multi AP screens and HTTP display (IE browser).

11. Unique video player.

PACKAGE CONTENT
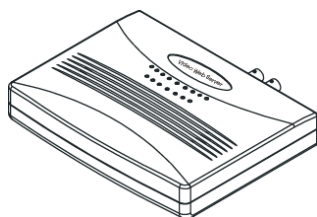
Video Web Server
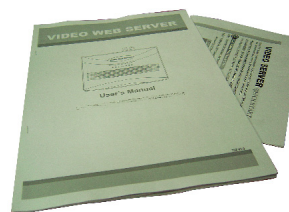
Manual & Quick Start & CD

Terminal block

Crossover LAN cable

Adaptor

NOTE : Please check the package to make sure that you receive all accessories shown above.

SPECIFICATION

Video Input	2 Channels for analog & digital products, 1.0 Vp-p, 75, Composite, BNC
Alarm Input	4 Inputs
Watch dog	Yes*
RS-485 Port	Yes
Network Interface	Ethernet (10/100 Base-T)
Image Compression	JPEG
Video Adjustment	Brightness, Contrast, Saturation, Quality Level adjust
Protocols	TCP/IP, ICMP, SMTP, FTP, HTTP
Hardware	CPU: 16 Bits RISC Processor, ROM: 512K Bytes Flash, RAM:8M Bytes SDRAM,
	One RJ-45 for 10/100 Mbps Ethernet, LED to indicate Link / Act status,
	GPIO with triggers for E-mail or FTP site
Resolution	VGA: 640x480, QVGA: 320x240
Performance	Video through put : Up to 15(NTSC), 12.5(PAL) frames/ second,
Trigger & Action	Triggered by GPIO Input, Action: E-mail images or images uploading to FTP site's specific accounts
Installation	Assign IP address
Security	Password Protection
Power Source	DC 12V
Current consumption	500 mA

Design and specifications are subject to change without notice.

*This function can keep Video Web Server to work normally and to avoid this unit to be down.

Before Operation

IP ADDRESS APPLY

Before installation, contact your ISP for your own IP address.

Note : The bundled software is compatible only with Windows operation systems : WIN2000, WIN2003 and WINXP. It is not suggested to use WIN98 & WIN ME which may cause system conflictions with the software.

REAR PANEL
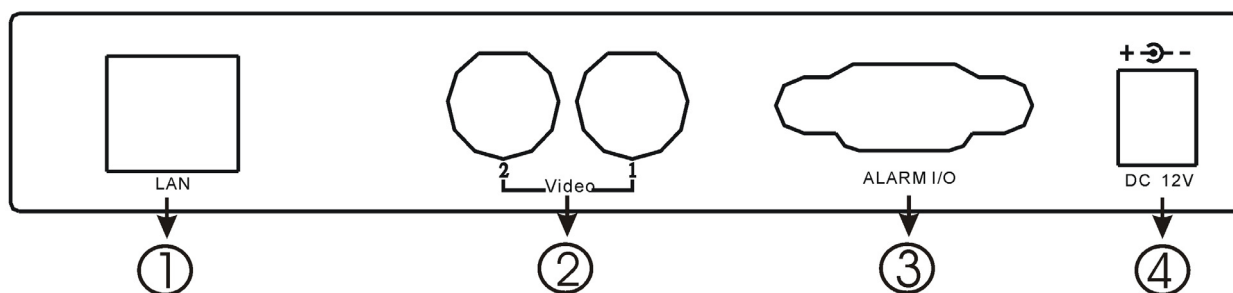
1. LAN

Connect Video Web Server to the Internet or LAN with cable or connect directly to PC with standard pass through cable.

2. VIDEO INPUT (2 channels)

Connect to video source, such as camera or DVR video output.
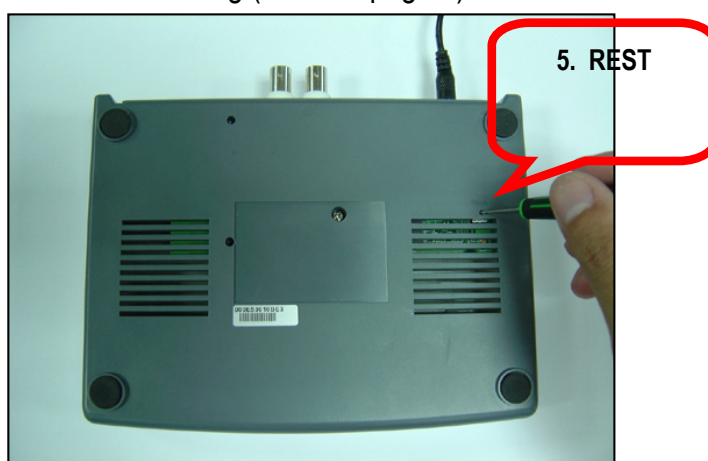
3. ALARM I/O (optional for advanced applications)

Connect control devices, such as PTZ, DVR and external alarm signal input.

4. POWER

Plug in the supplied power adaptor (12V / 500mA).

5. RESET (at the bottom of Video Web Server)

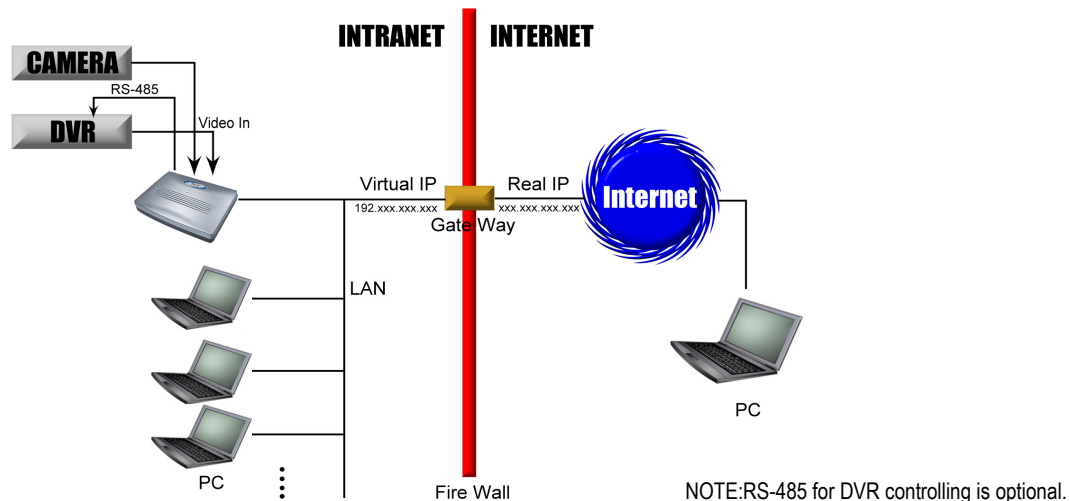Press this button to default setting (Refer to page 7).

LED light

1)When it glitters, that means the system is normal.

2)When it lights, that means the network is normal.

HARDWARE CONNECTION

A . Connection Structure


NOTE:RS-485 for DVR controlling is optional.

1. Connect video output of camera or DVR with the video input of Video Web Server.

2. Connect PC with Video Web Server for IP setting.

3. Connect Video Server with ADSL or CABLE MODEM with Static IP address.

4. Connect PC with Internet and remote control Video Web Server.
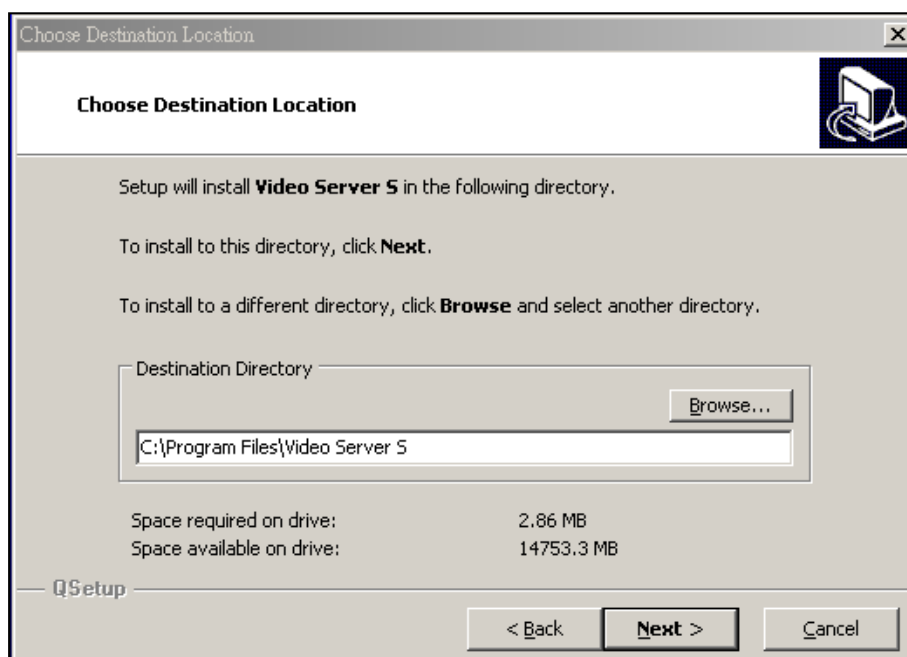
B . Connection Application
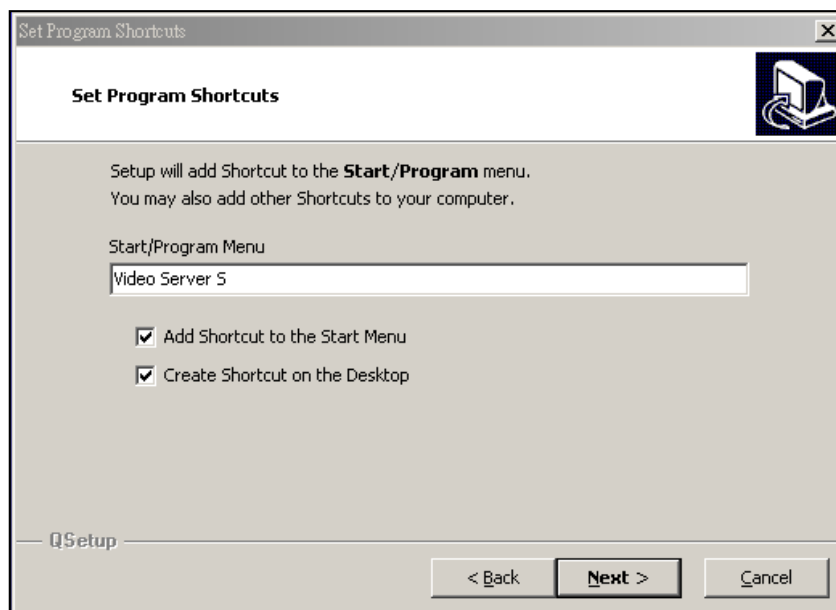

4
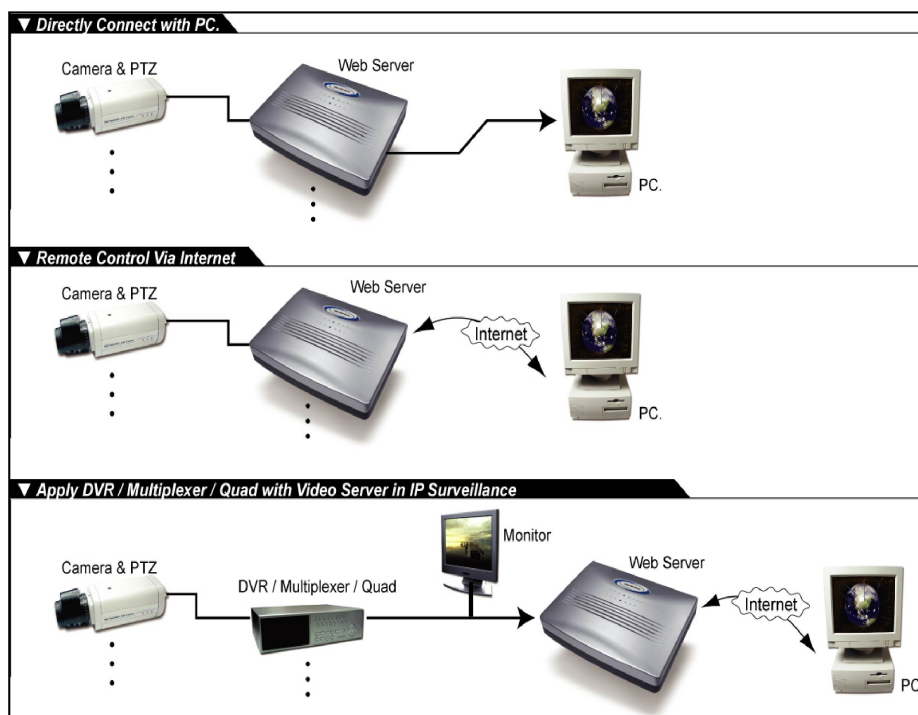
SOFTWARE INSTALLATION

1. Put the attached CD into a CD-ROM and it will start to install application program into PC.

2. Press "Next".
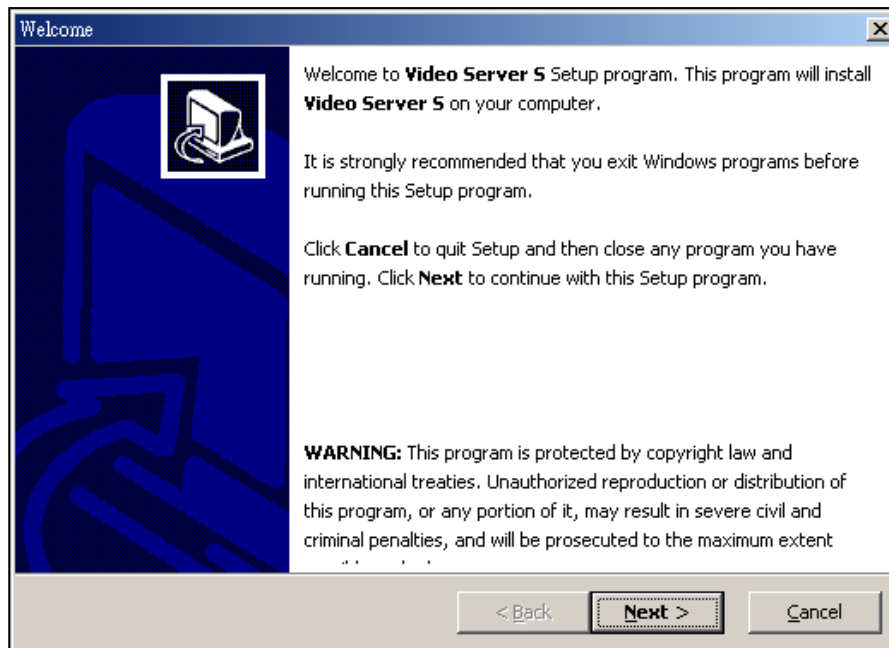
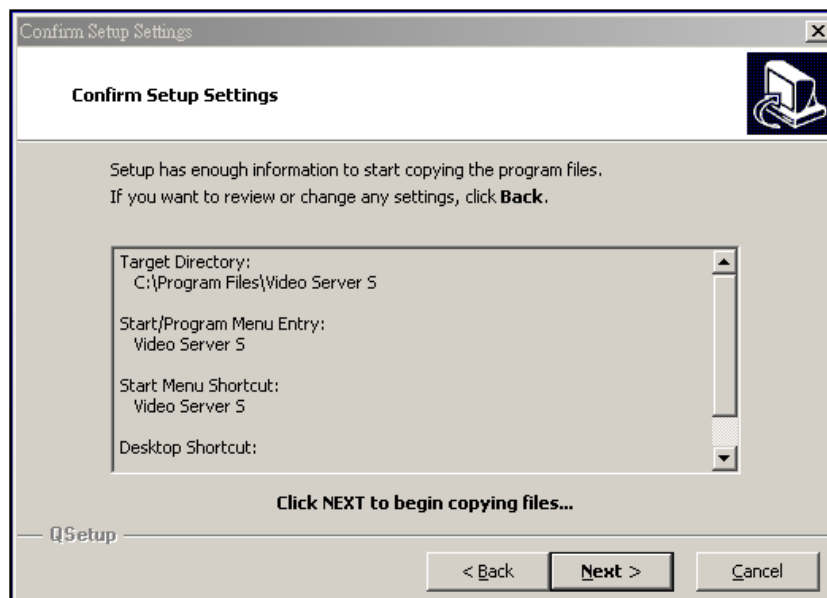**3. Choose destination location and press "Next".**

4. Set program shortcuts setting and press "Next".

5. Press "Next" to begin copying files

6. After the installation, there are 6 files and 1 folder in your assigned path (file folder) as below.

BMP   CtrlFile   IJL15.DLL   UnInstall_2...   UnInstall_2...   Video Server S   VideoServer...

SYSTEM RESET

7

Before first using Video Web Server, please connect power with Video Web Server and push the button under the unit more than 5 seconds to reset the setting.
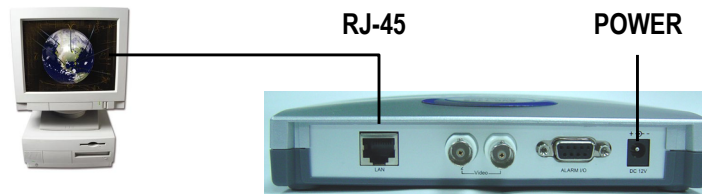

REST

Static IP Setting

STEP 1: IP SETTING

1. Connect PC or Notebook with Video Web Server with crossover LAN cable.
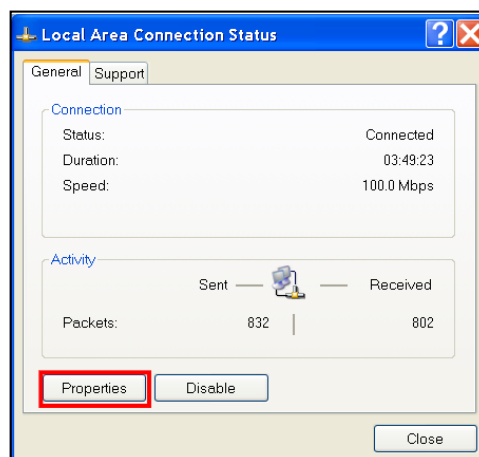
   Note : In some operation environments, users might need the standard CAT5 cable.
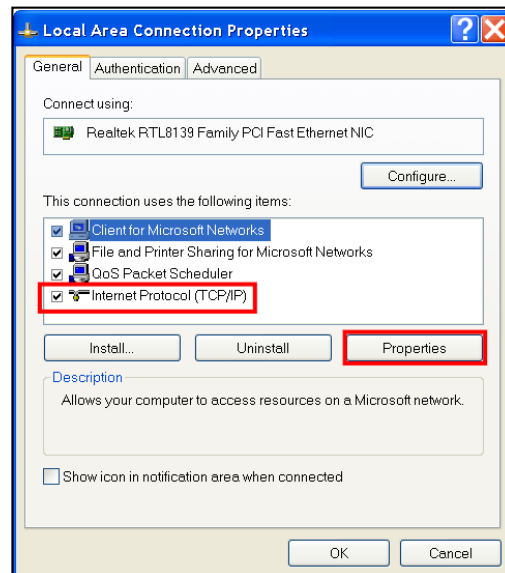
RJ-45   POWER

2. Network setting for PC. (The instruction is based on Win XP O/S. If your O/S is Win 2000 or Win 2003, the setup procedure is similar to that on Win XP O/S.)
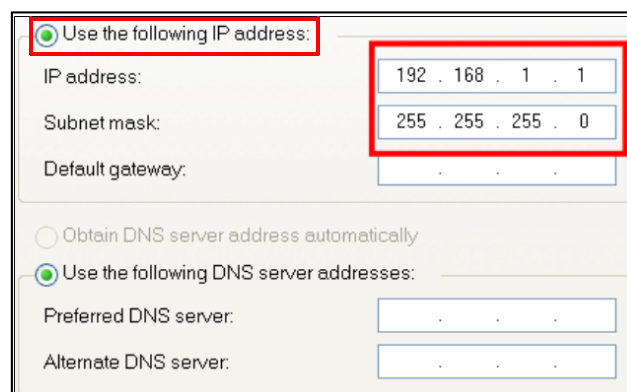
Click   twice

3. Click on "Properties" for TCP/IP setup

4. Click on "INTERNET PROTOCAL (TCP/IP)" and then select "Properties" to setup

5. Click on "Use the following IP address" and set IP address and subnet mask

NOTE :
1. Before changing the PC network setting, please write down the original network setting in order to recover the original setting after the setup.

2. The IP address should be like 192.168.1.XXX. The setting of "XXX" could be set from 1 to 254 besides 10(Because the IP 192.168.1.10 is the default IP); the subnet mask is 255.255.255.0.

STEP 2: VIDEO WEB SERVER SETTING

1. To configure the Server IP, please click [icon] **twice to enter the setup.**

2. Key in User Name, Password, and Server IP (The default setting of User Name and Password are admin; Server IP is 192.168.1.10, Port : 80). Then click OK to connect.
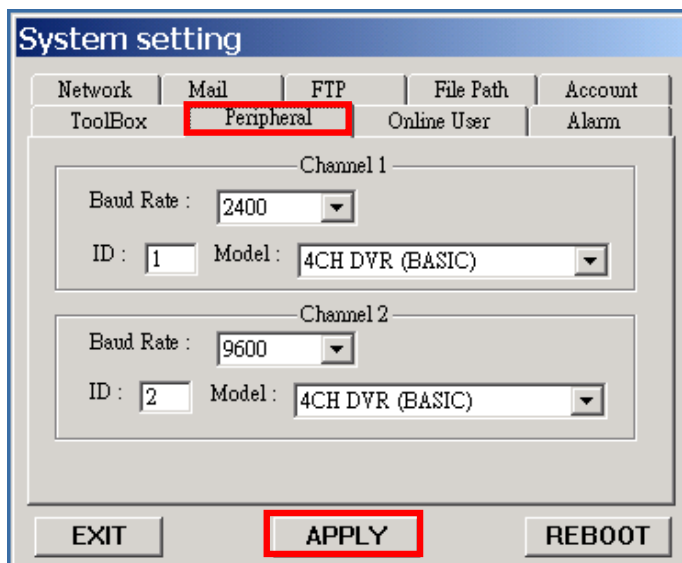
3. When you see the control bar it means that , you have successfully logged in the program of the Video Web Server. Click on "System Config" to set up.

→SYSTEM CONFIG

4. In the Peripheral setting, set baud rate, ID and model which you want to remote control later. Press "APPLY" to enable the change after the setting.

5. **Click on "System Config" again. In the Network setting, set server IP, gateway, net mask and DNS which are provided from your local ISP (internet service provider). Press "APPLY" to enable the change after the setting.**

6. **Disconnect PC and Video Web Server, and then link the static IP to the RJ-45 of video web server.**

Static IP

STEP 3: DVR REMOTE SETTING

1. **Connect the DVR and monitor.**

2. **In the "Remote" setting, set the baud rate and ID that are the same as "Peripheral" setting in the Video Web Server. And set remote mode to RS-485 (see example below).**

A. 1 / 4 CH DVR

```
(MENU)              (REMOTE)
TIMER           REMOTE MODE : RS-485
CAMERA            BAUD RATE : 2400
RECORD                ID : 001
ALARM
DWELL
► REMOTE
SYSTEM
EVENT
```

B. 4 / 9 / 16 CH DMR

```
(MENU)              (SYSTEM)
SEARCH                :
TIMER                 :
RECORD         REMOTE MODE : RS-485
CAMERA           BAUD RATE : 2400
► SYSTEM         REMOTE ID : 001
EVENT
```

11
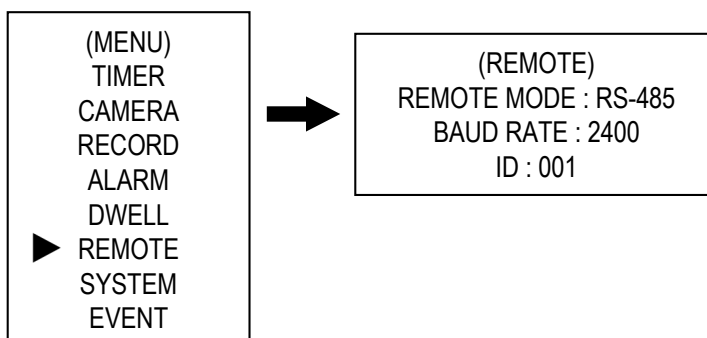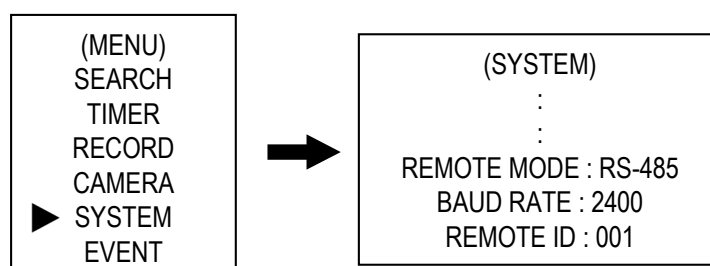
STEP 4: PIN CONFIGURATION

After the remote setting, you have to connect DVR with the pins.

PIN 1, 6. RS485-A, RS485-B
Use RS485-A & RS485-B serial communication signals to control digital units just like that to control DVR.

PIN 4, 7, 8, 9. ALARM INPUT
Use PIN 4,7,8,9 to receive the alarm input and then trigger Video Server to send mail to users for auto e-mail warning system. (Alarm1, 2 are for CH1; alarm3, 4 are for CH2)

PIN 5. GND
Ground

PIN 2, 3. NORMAL HIGH, NORMAL LOW
Use PIN 2 or 3 to trigger external device to act.

Please see the example picture below for 1CH/4CH DVR.

RS485-A

RS485-B
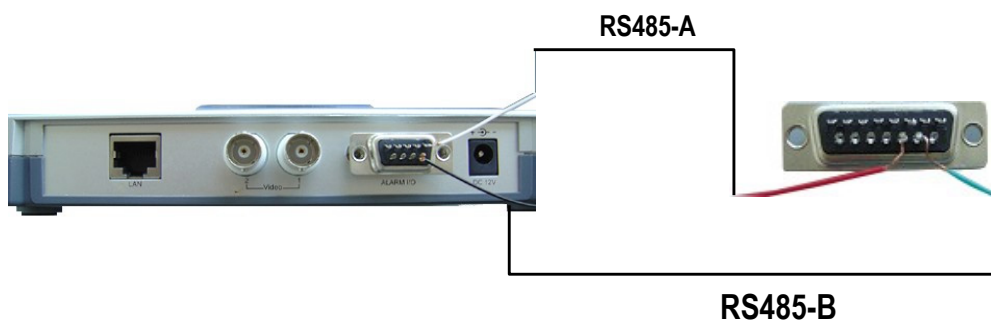
STEP 5: CONNECT PC VIA INTERNET

1. Change PC network setting to the original setting and link PC to the internet.

2. Click [icon] **twice and enter your User name, Password (Note : If you never change the "Account" before, the User Name and Password are both "admin") and static IP which you have set to Video Web Server in step 4.5. Then click OK to connect.**

VIDEO WEB SERVER   V : 1.1.5.5

User Name : admin

Password : *****

Server IP : 61.66.138.74

Web Port : 80   Address Book

OK   SEARCH   CANCEL   ▶

STEP 1: DDNS APPLY

1. Click on free site "http://www.dyndns.org" (please look at the example below, you can also apply DDNS in other DDNS web page) and "ACCOUNT"

2. Press "Create Account"

3. Register the information and click on "Create Account"

14

4. After registering your account, you will receive an e-mail, which contains instructions to activate your account. If you do not follow these directions within 48 hours, you will need to re-register your account.

5. Login your account.

6. Click on"Account" and "Add Host"
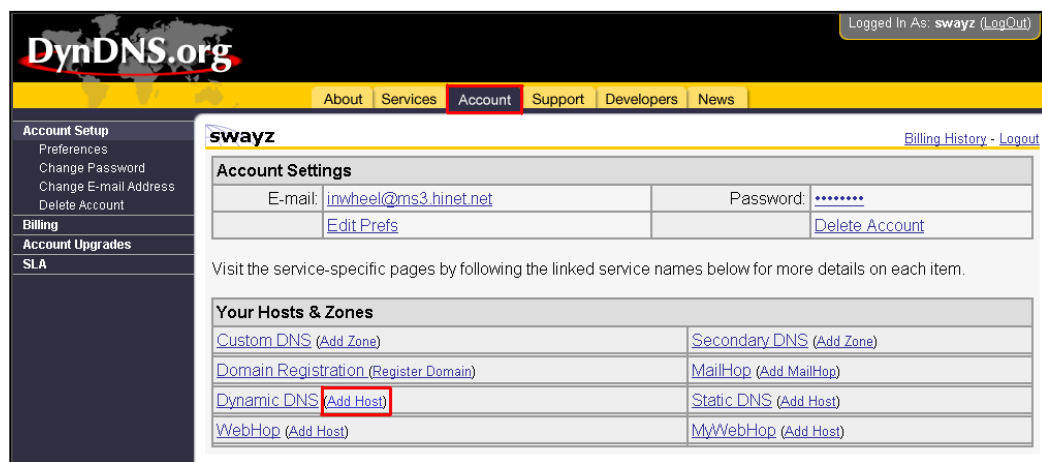
7. Users can set up their own DDNS HOST. For example, the user's applied Host name is "test.dyndns.org". And then press "Add Host" to finish the setting. (NOTE : Some routers don't support some DDNS HOSTs)

15
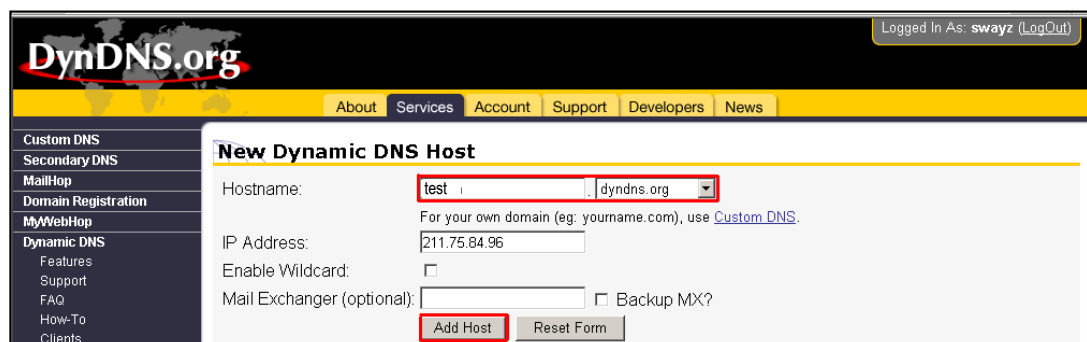
STEP 2: LOGIN ROUTER

NOTE : The following settings are different from router to router. Please read the instruction of your router thoroughly.

1. Connect PC and router (LAN end)
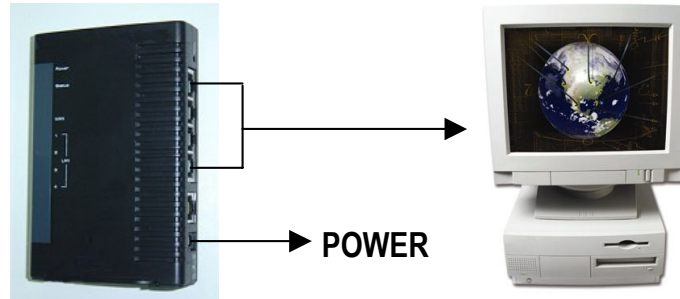
POWER

2. Network setting for PC. (The instruction is based on Win XP O/S. If your O/S is Win 2000 or Win 2003, the setup procedure is similar to that of Win XP O/S.)

Click   twice

3. Click on "Properties" for TCP/IP setup
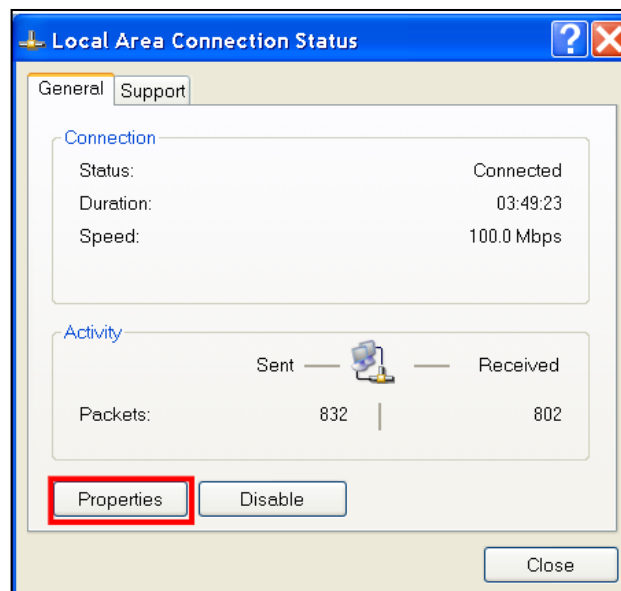
4. Click on "INTERNET PROTOCAL (TCP/IP)" and then select "Properties" to setup
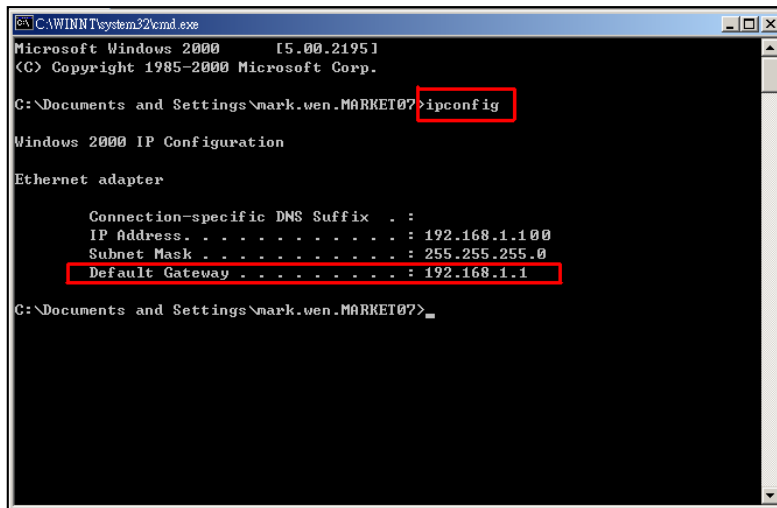
5. Choose "Obtain an IP address automatically"

6. Enter "Command Prompt"

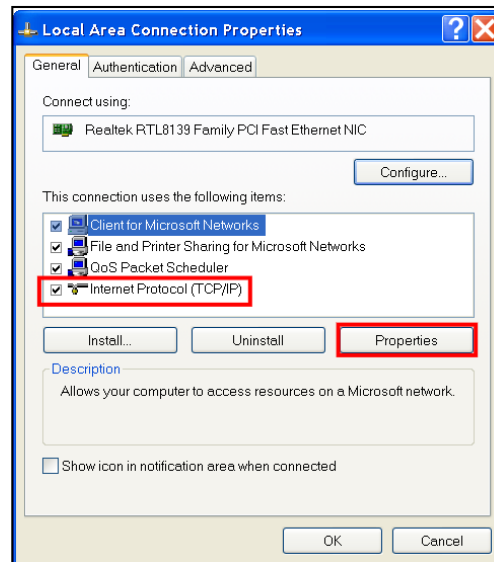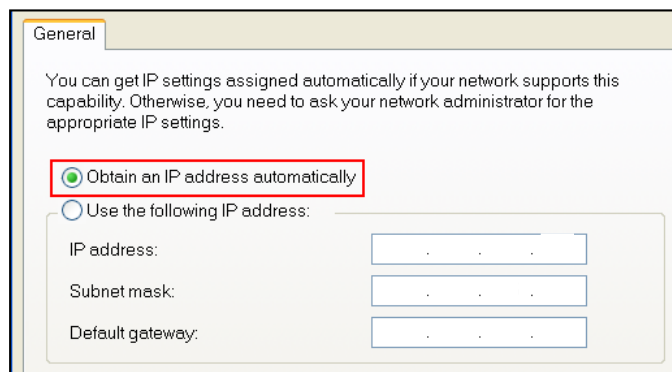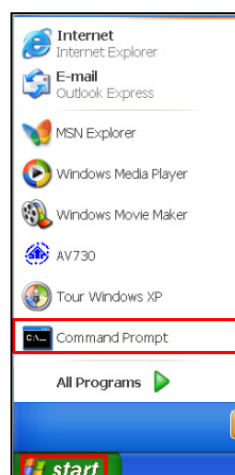**7. In the setting window, enter " ipconfig" to write down router's gateway(e.q. 192.168.1.1)**

```
C:\WINNT\system32\cmd.exe                                        _ □ ×
Microsoft Windows 2000     [5.00.2195]
<C> Copyright 1985-2000 Microsoft Corp.

C:\Documents and Settings\mark.wen.MARKET07>ipconfig

Windows 2000 IP Configuration

Ethernet adapter

        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.1.100
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.1.1

C:\Documents and Settings\mark.wen.MARKET07>_
```

**8. Close the window above. Enter the IP address (router's gateway : 192.168.1.1) to
   log in to the router from internet explore. And then enter the login web page and key in
   the router's user name and password.**

IP   192.168.1.1

User Name [   ]
Password [   ]

          OK   **Cancel**

STEP 3: ROUTER SETTING

NOTE : In the router setting, we have four steps as follows.

1. Dial setting

2. DHCP setting

3. Virtual server setting

4. DDNS setting

1. Press "INTERNER PORT" and choose your WAN type (e.q. PPPoE), and then enter your "User Name" and "Password" of dialing up to dynamic IP. Press save after you set up.

2. Press "LOCAL PORT" and set "Start IP address" and "Number of IP address". (For example, if the IP address of Video Web Server is 192.168.1.10, then 10 is excluded from the setting range) Press save after you finish setting up.
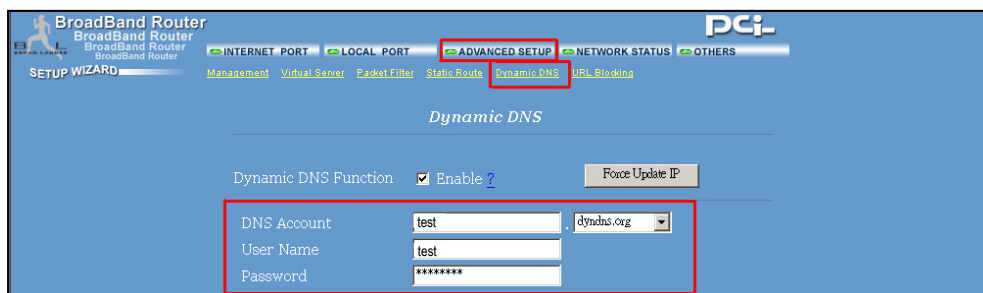

19

3. In "ADVANCED SETUP / Virtual Server". Choose "By Port" and set "Port Number" to 80 for Video Web Server. And set "Local Server IP Address" to 192.168.1.10. (The default Video Web Server IP and port). Press add after you set up.
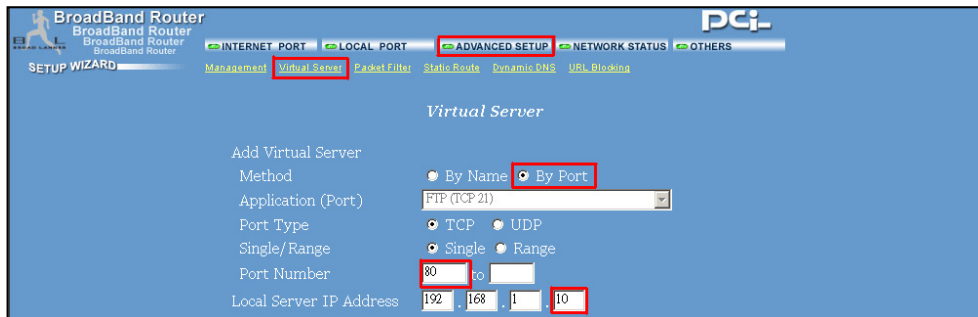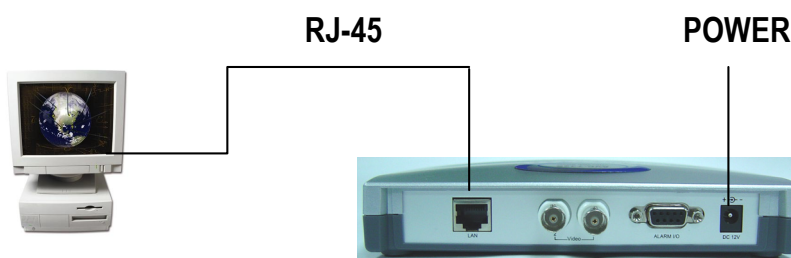

4. In "ADVANCED SETUP / Dynamic DNS". Key in the "DNS Account", "User Name" and "Password" that you applied in step 1. Press save after you set up.

STEP 4: IP SETTING

1. Connect PC or Notebook with Video Web Server with crossover LAN cable. Note : In some operation environments, users might need the standard CAT5 cable.

RJ-45   POWER

2. Network setting for PC. (The instruction is based on Win XP O/S. If your O/S is Win 2000 or Win 2003, the setup procedure is similar to that on Win XP O/S.)

Click   twice

STEP 5: VIDEO WEB SERVER SETTING

1. To configure the Server IP, please click   twice to enter the setup.

2. Key in User Name, Password, and IP address (The default setting of User Name and Password are both "admin"; IP address is 192.168.1.10, Port : 80). Then click OK to connect.

3. When you see the control bar, you have successfully logged in the program of the Video Web Server. Click on "System Config" to set up.

→ **SYSTEM CONFIG**

4. In the Peripheral setting, set baud rate, ID and model which you want to remote control later. Press "APPLY" to enable the change after the setting.
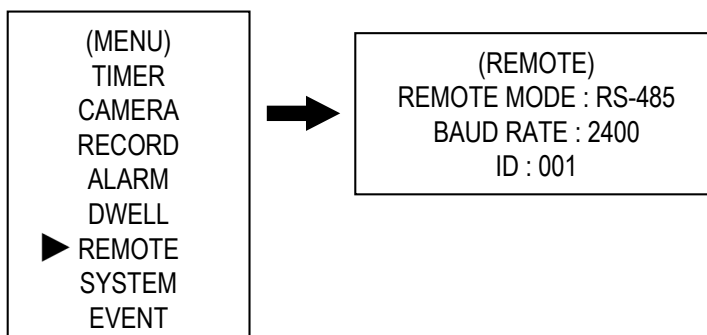

5. Click on "System Config" again. In the Network setting, set gateway as same as the router's gateway(192.168.1.1). Press "APPLY" to enable the change after the setting.
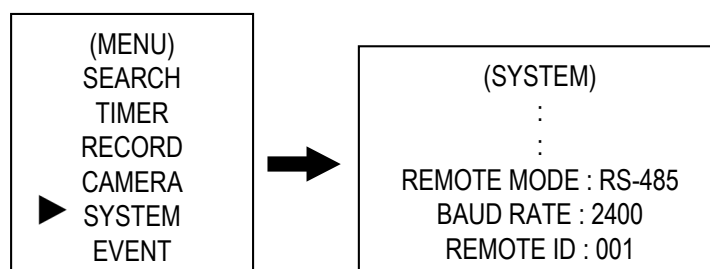
STEP 6: DVR REMOTE SETTING

1. Connect the DVR and monitor.

2. In the "Remote" setting, set the baud rate and ID same as "Peripheral" setting in the video web server. And set remote mode to RS-485.(see example below)

A. 1 / 4 CH DVR

```
(MENU)
 TIMER
 CAMERA
 RECORD
 ALARM
 DWELL
► REMOTE
 SYSTEM
 EVENT
```

➡

```
(REMOTE)
REMOTE MODE : RS-485
BAUD RATE : 2400
ID : 001
```

B. 4 / 9 / 16 CH DMR

```
(MENU)
 SEARCH
 TIMER
 RECORD
 CAMERA
► SYSTEM
 EVENT
```

➡

```
(SYSTEM)
    :
    :
REMOTE MODE : RS-485
BAUD RATE : 2400
REMOTE ID : 001
```

STEP 7: PIN CONFIGURATION

After the remote setting, you have to connect DVR and the system with the pins.
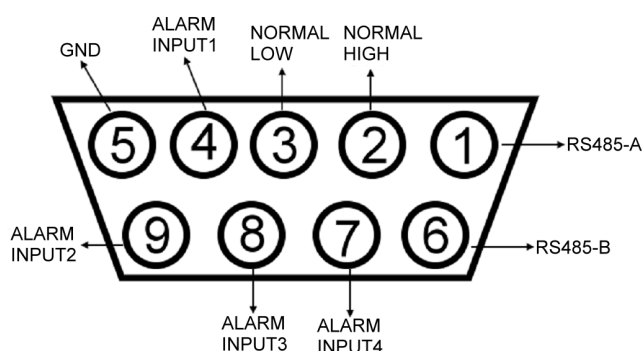
PIN 1, 6. RS485-A, RS485-B
Use RS485-A & RS485-B serial communication signals to control digital units just like that to control DVR.

PIN 4, 7, 8, 9. ALARM INPUT
Use PIN 4,7,8,9 to receive the alarm input and then trigger Video Server to send mail to users for auto e-mail warning system. (Alarm1, 2 are for CH1; alarm3, 4 are for CH2)

PIN 5. GND
Ground

PIN 2, 3. NORMAL HIGH, NORMAL LOW
Use PIN 2 or 3 to trigger external device to act.

Please see the example picture below for 1CH/4CH DVR.

RS485-A

1CH/4CH DVR

RS485-B
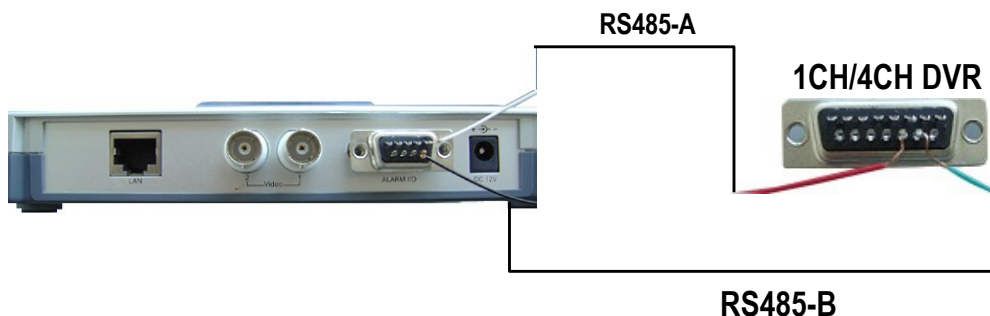
STEP 8: CONNECT ALL DEVICES

ADSL modem
(WAN end)

DVR
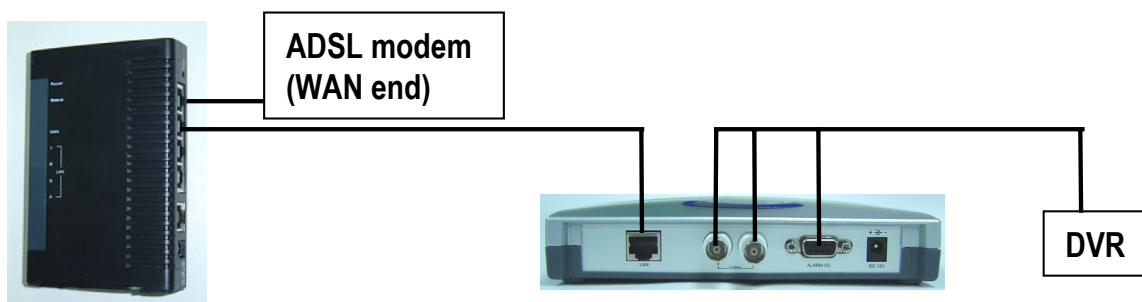
STEP 9: CONNECT PC VIA INTERNET

1. Change PC network setting to the original setting and link PC to the internet.

2. Click **twice and enter your User name, Password and host which you have set to Video Web Server. (Note : If you never change the "Account" before, the User Name and Password are both "admin"). Then click OK to connect.**

DDNS HOST

NOTE :

Static IP

1. In step 1.5 : Please make sure that your IP address should be 192.168.1.XXX. The setting of "XXX" could be set from 1 to 254 besides 10 (Because the IP 192.168.1.10 is default IP)

2. In step 2.4 : Please make sure that the Peripheral setting should be as same as setting of DVR which you want to remote later.

3. In step 5.2 : The Server IP is the IP you set in step 2.5.

Dynamic IP
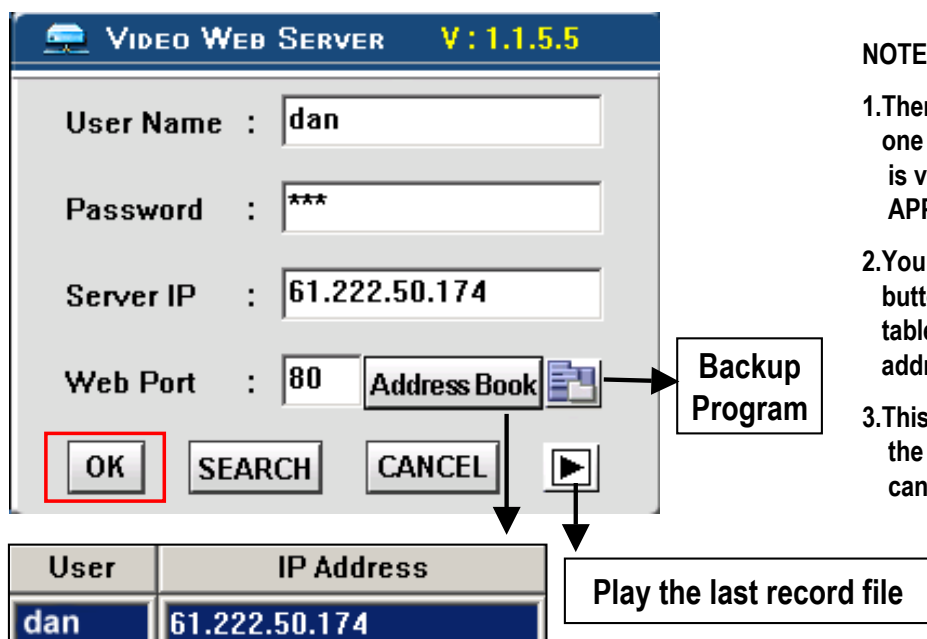
1. In step 1.7 : Some routers don't support some DDNS HOST.

2. In step 2.1 : Please use router's LAN end to connect PC.

3. In step 2.8 : Please use IE browser to enter router's gateway.

4. In step 3.1 : Please make sure that you have pressed save after you finish setting.

5. In step 3.2 : Please make sure that you have pressed save after you finish setting.

6. In step 3.3 : Please make sure that you have pressed add after you finish setting.

7. In step 3.4 : Please make sure that you have pressed save after you finish setting.

8. In step 5.4 : Please make sure that the Peripheral setting should be as same as setting of DVR which you want to remote later.

9. In step 8   : Please use router's LAN end to connect Video Web Server. Use WAN end connect ADSL modem.

10. In step 9.2 : The Server IP is the DDNS HOST which you set in step 3.4.

SOFTWARE OPERATION

Follow the steps for connection at your client site (remote site). (e.g. If you set up the server at your office with one static ADSL, you can remotely proceed to watch the video anywhere with a networked computer.)

Step 1：Click   twice to enter Login setup (please refer to "software installation")

Step 2：Key in "User Name" and " Password". Click "OK" to establish the connection.

NOTE:

1. There are two ways to get the software, one is via attached CD, and the other is via Video Web Server.(Refer to APPENDIX#4)

2. You can press "Address Book" button to add a new IP into this table or choose any logined IP address to access the Video Server.

3. This function is designed to store the list of IP addresses which you can control and manage.

Backup Program

Play the last record file

Step 3：If you could see the video screen as following, you have been successfully connecting to the server.

[Introduction of Basic Operation]

A. Video Web Server control panel

1 2 3 4 5 6 7 8 9 10 11

VIDEO WEB SERVER IP:49

FR:2.87 fps DR:514 kbps HU:admin 2

2004-DEC-23 [THU] 10:42:32 Aa 001.9 GB O/W

CAMERA01 CAMERA02

CAMERA03 CAMERA04

1. Image transmission rate per second

2. Video CHs

3. Data transmission rate

4. Connection/Disconnection

5. Resolution : D1、CIF

6. Image quality : High、Middle、Low

7. Image adjusting : Brightness/ Contrast/ Saturation

8. Snapshot : press this button, the image will be automatically saved in the PC.

9. Record : press this button, the recording file will be saved in the PC automatically.

10. System config

11. Number of online users

B. Digital device control panel

1 1 2 3 4
2 /+ /-
3 Zoom Lock Record Search
4 Stop Rewind Fast Forward Pause Slow Play
5

6 7

1. CH1-4

2. PIP/+, QUAD/-

3. Zoom, Lock, Record, Search

4. Stop, Rewind, Fast Forward , Pause, Slow, Play

5. Menu / up / down / left / right

6.Enter

7.TURBO*

NOTE：

1.**When you setup the video input from DVR, the screen will show the operation interface above.**

2.**Take 16 CH DVR as an example to explain the operation (please refer to DVR user manual & APPENDIX#1 for details)**

3.**After you press the record icon, there will be a recording file in the path that you have set.**
Each recording file can be save up to 6000 frames.
The recording file will be assigned to the second file if it is more than 6000 frames.
Besides, if the HDD space is less than 200MB, the program will stop recording.

To speed up menu selecting under video web server or PTZ shifting speed, you can activate "Turbo" function by clicking this button. Users are allowed to change the turbo steps from 1 to 10.
For turbo step setting, you can enter system config, and click "toolbox" submenu to select the number of turbo step. Ex. If you set "3" for turbo step, then when you press one of the button up/down/left/right, one mouse click will as if you click 3 times.

PLAYBACK OPERATION

Please find a recording file in the PC and click twice on it to playback.

1. On Screen Display

2. Snapshot

3. Stop

4. Pause

5. Slow (1/2, 1/4, 1/8)

6. PLAY

7. Fast

8. OSD show / hide

9. System setting (Path of snapshot, text color, progress color, channel color)

10. Next Video

11. Duration time / Status

12. Playback controlling bar

ADVANCED SETTING

Click on "System Config" for advanced setting.

SYSTEM CONFIG

NOTE :
Apply--
After all setting changes, press "apply" to refresh the data in the Video Web Server.
Reboot--
Press this button to restart Video Web Server.

Network

To set up the network setting of the Video Web Servers, check with your network administrator or Internet Service Provider.

1. You can get all the information, Server IP, Gateway, Net Mask & DNS, from ISP company.

2. Web Port : You can control Video Web server via it.

3. IP Type : This unit only supports Static IP address, if you want to use Dynamic IP, please get it via a Router.

MAIL

When the alarm is triggered, the Video Web Server will capture the instant picture and e-mail the captured image to the assigned recipients.

1. You can get all the data from the ISP company or by mailing to the server supplier.(POP3/SMTP server)

2. You should set the mail list which you want to send to when the alarm is triggered.

3. If it is not necessary for you to verify password and user's name, please choose Verify as "No".

4. Please refer to appendix#3 for more details.

FTP

When the alarm is triggered, the video server will capture the instant picture and upload the captured image to the assigned FTP site.

UserName :	andy.lee
Password :	*******
Port :	21
Server :	211.64.23.125
Directory :	image

1. You can get all the data from your MIS department.

2. The default uploading port is No.21.

3. You can set the uploading directory by yourself.

ACCOUNT

Set up the user's account(Max 10 accounts) , password and authority (Max 5 accounts on line at the same time) .

User name	User level	Life time
admin	SUPERVISOR	INFINITY

Max User : 5   ADD   DELETE   EDIT

1.User's level:

   SUPERVISOR-control all the functions

   HIGH LEVEL-control advanced functions

   NORMAL -control basic functions only

   GUEST LEVEL –watch the image only

2.Life time : During the period of time, users are allowed to control the Video Web Server.

PERIPHERAL

You can set up all the peripheral setting in this Windows. (Refer to APPENDIX#1 & 2 for more details)

Channel 1
Baud Rate : 2400
ID : 0   Model : CAMERA

Channel 2
Baud Rate : 2400
ID : 0   Model : CAMERA

Peripheral Control : Set up video input device. You can select the devices then set up "Baud Rate & ID No." to control the equipments via Video Web Server.

File Path

You can modify the storing path for recording file and snapshot images by yourself.

TOOLBOX

Upgrade the firmware and get the online users' information.

NOTE :
**Do not reboot the Video Web Server while it is upgrading the firmware.**

1. Firmware Version : The current firmware version. You can click on the "Find" button to get the latest firmware from PC and press "Upgrade Firmware" to upgrade it.

ALARM

Set up the ALARM function. You can use it to operate "alarm trigger recording" function.

1. Alarm : Enable or disable Alarm trigger function.
2. Method : Two selections—Email or FTP.
3. Resolution : Image storing resolution for Email or FTP function.
4. Alarm Duration : Alarm duration time.
5. Post Image : You can select how many images you need to store when alarm is triggered.
6. Alarm record : Enable or disable "Alarm trigger recording" function.
7. Alarm refresh : Clean the alarm message " 🔔 " which is showed on the screen.

31
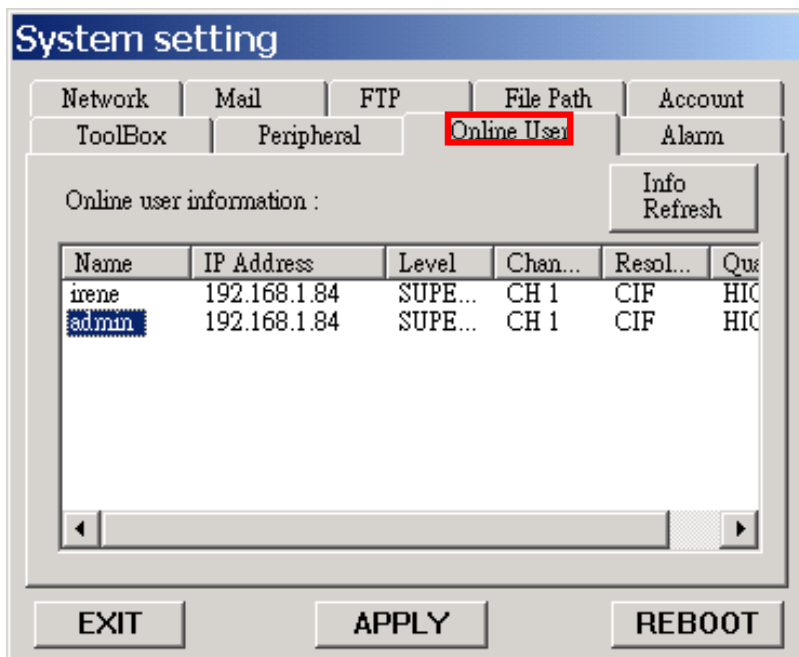
## Online User

1. The information of online user.

2. Chat function. Users are on line at the same time and two of them can talk to each other. Click the name of the other user. A window as below will jump out. Click OK.

NOTE: Please turn (activate) all transmission TCP and UDP ports. Fire wall and similar software may disrupt normal transmission.

APPENDIX #1 – DVR CONTROL

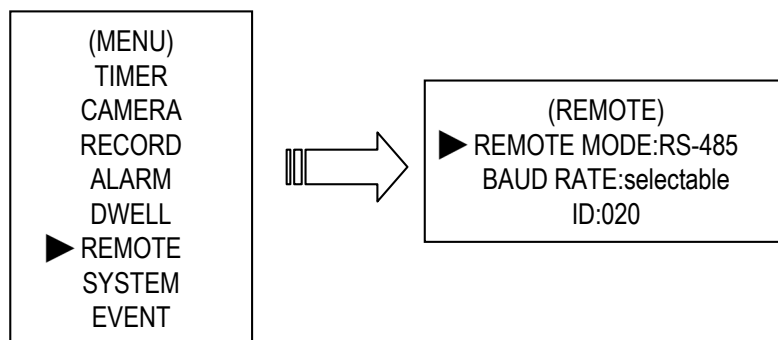**1) Connect the Sub-D plug of Video Web Server with our own brand DVR products.**
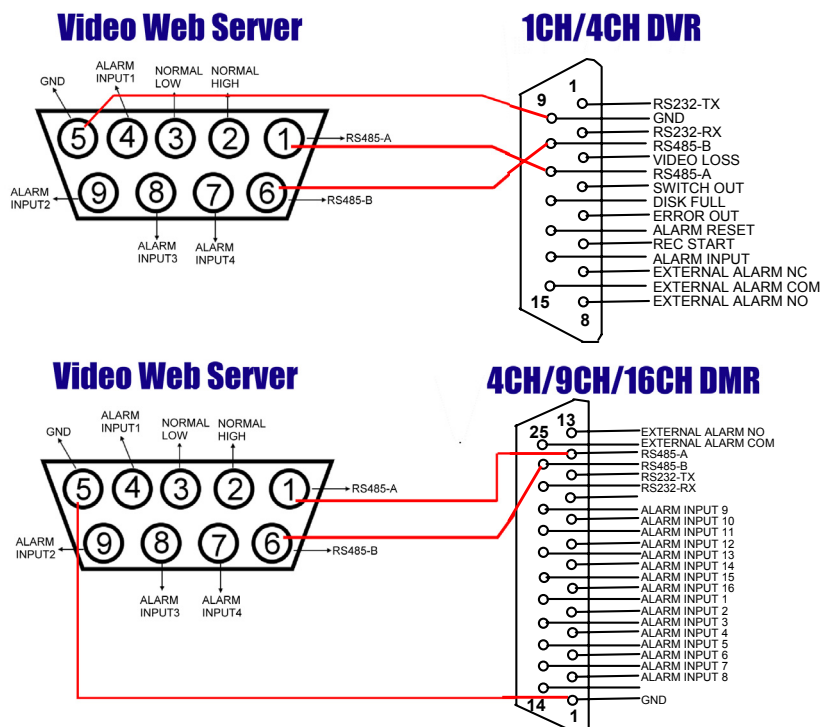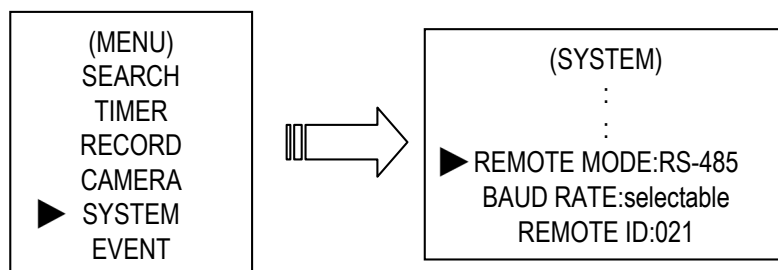
2) Set the "Remote" function in the DVR products.

NOTE :
Remote mode : RS-485, Baud rate : selectable, ID : same as "Peripheral Control" in the Video Web Server.

A. 1 / 4 CH DVR

```
(MENU)
TIMER
CAMERA
RECORD
ALARM
DWELL
► REMOTE
SYSTEM
EVENT
```
⟹
```
(REMOTE)
► REMOTE MODE:RS-485
   BAUD RATE:selectable
        ID:020
```

B. 4 / 9 / 16 CH DMR

```
(MENU)
SEARCH
TIMER
RECORD
CAMERA
► SYSTEM
EVENT
```
⟹
```
(SYSTEM)
      :
      :
► REMOTE MODE:RS-485
   BAUD RATE:selectable
   REMOTE ID:021
```

3) Set the "Peripheral Control" in the system config of Video Web Server.

APPENDIX #2 – PTZ CONTROL

1) Connect the Sub-D plug of Video Web Server with our own brand PTZ products.
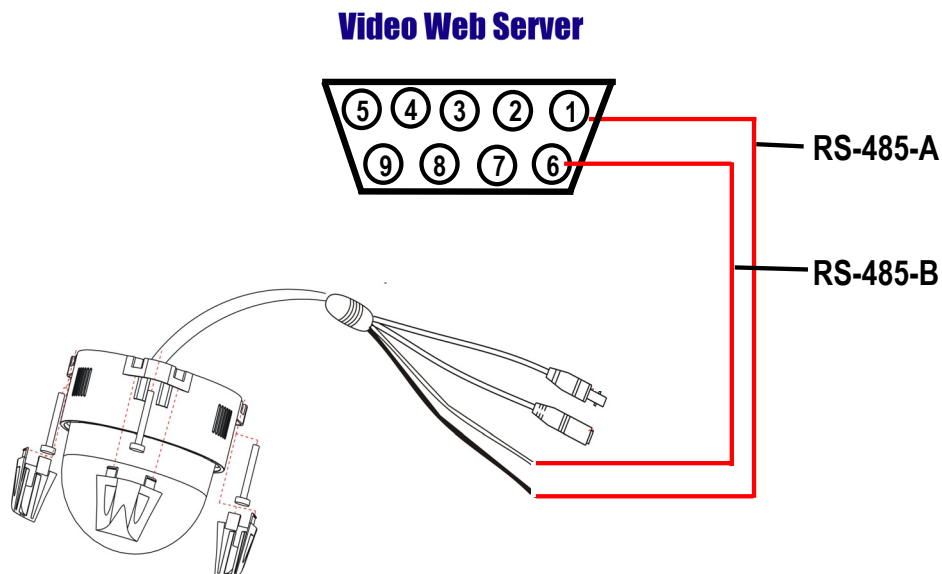
2) Set the "Peripheral Control" in the system config of Video Web Server.
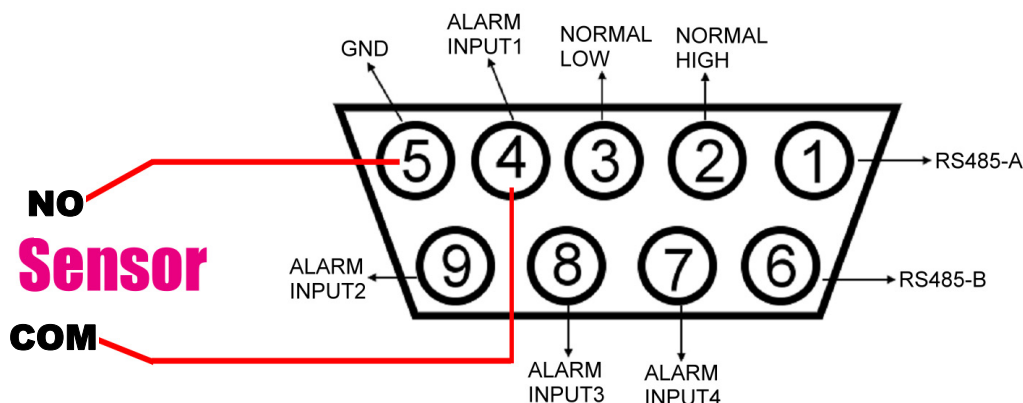

NOTE:

Set the ID as the PTZ ID value. The default value is "0".

APPENDIX #3 – E-MAIL SENDING

1) Connect the Sub-D plug of Video Web Server with the COM/NO ports of Sensor.

Video Web Server

2) Set the "Mail setting" item in the system configure.


NOTE1 : You can get all the data from the ISP company or by mailing to the server supplier **(POP3/SMTP server)**.

NOTE2 : You should set the mail list which you want to send to when the alarm is triggered.

NOTE3 : When the alarm is triggered, you can find ' 🚨 ' message showed on the screen.
Then **the AP will start recording automatically** and you can get the email with the snapshot image in your mailbox.
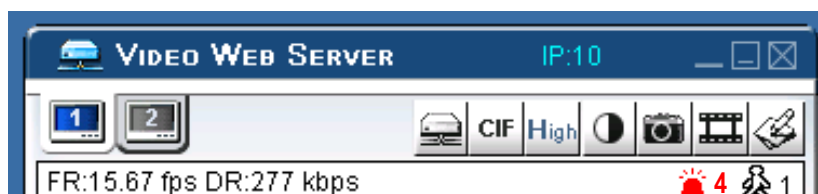
APPENDIX #4 – SOFTWARE DOWNLOAD

STEP 1 : Download Video Web Server software form http://219.84.21.166. Press "Download AP"
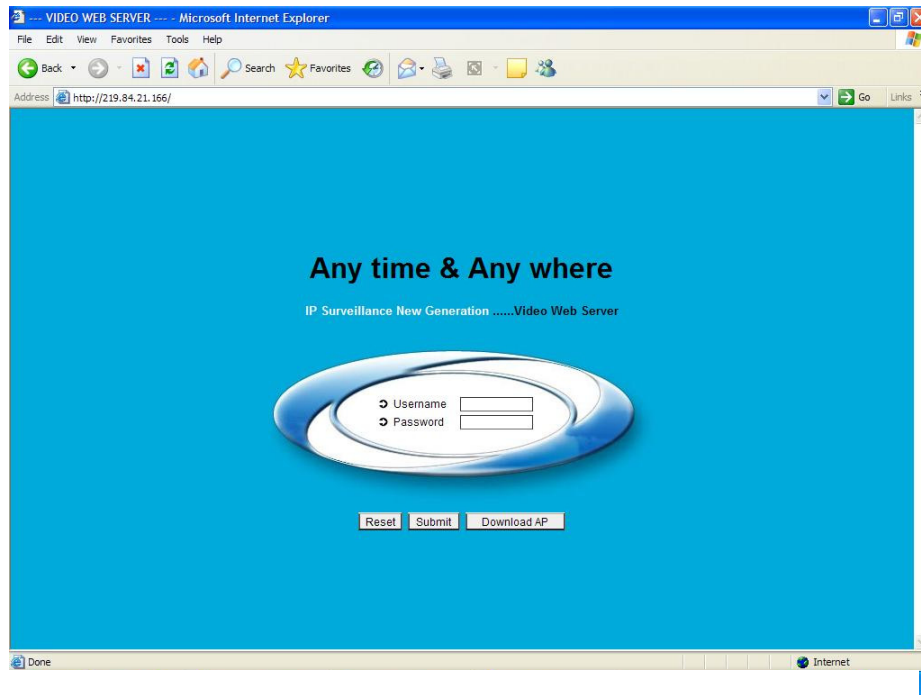
STEP 2 : Install the software. There are six files and 1 folder in your assigned path (file folder) as below shower.

BMP   CtrlFile   IJL15.DLL   UnInstall_2...   UnInstall_2...   Video Server S   VideoServer...

STEP 3 : Click 🖥 twice and enter user name, password, server IP and Web port. Then click OK to connect.